# Kobe Sarausad

[LinkedIn](LinkedIn)
[Portfolio](Portfolio)

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## Education

University of Washington                          Seattle, WA                          June 2023
*Bachelor of Science in Statistics: Data Science*
GPA: 3.55/4.00

Relevant Coursework: Data Structures and Algorithms ([CSE 373](CSE 373)), Foundational Skills for Data Science ([INFO 201](INFO 201)), Statistical Computing ([STAT 302](STAT 302)), Elements of Statistical Methods ([STAT 311](STAT 311)), Data Science and Statistics for Social Science ([STAT 321](STAT 321)), Introduction to Probability and Mathematical Statistics I ([STAT 340](STAT 340)), Introduction to Probability and Mathematical Statistics II ([STAT 341](STAT 341)), Data Visualization ([CSE 412](CSE 412)), Machine Learning ([CSE 416](CSE 416))

## Experience

Self-Employed                          Issaquah, WA                          Jun 2021 – *Present*
*Private Tutor*

- Taught various programming topics to a middle schooler through Python (data structures, data analysis, data presentation) and other programming languages (HTML, CSS)
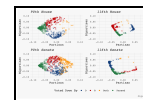
Hybrid Architecture                          *Seattle, WA*                          *Jun 2018 – Sep 2018*
*Architect Intern*

- Organized and updated spreadsheets of materials used for projects using google sheets
- Documented the environment and surroundings of future project sites

## Projects

- *Polarization of Congress ([R](R))*
    - Performed SVD analysis based on the roll calls of the 90ths and 116th congress
    - Reported results using ggplot and Rmarkdown



- *NFL Betting Dashboard ([R](R))*
    - Used R Shiny to build and deploy an interactive web dashboard for visualizing historical NFL betting/game data (plotly)
    - Utilized HTML and CSS for better interactivity and appearance



- *Sample R Package ([R](R))*
    - Integrated useful Statistical functions (t-test, linear models, random forest cross-validation)
    - Built own unit tests with 100% Coverage on Codedev
- NBA MVP prediction ([R](R), [slides](slides))
    - Applied machine learning models to predict the NBA MVP using sentiment analysis
    - Achieved 77% accuracy throughout the 2010-2022 NBA seasons
    - Presented results through Ioslides in Rmarkdown
- *Miscellaneous Data Visualizations ([Twitter](Twitter), [Observable](Observable))*

## Skills

- Software Tools: Rstudio, Terminal, Eclipse, Jupyter Notebook, Virtual Studio Code, Atom, Tableau, GitHub
- Computing:
    - Proficient: R
        - Data Analysis: tidyverse, hypothesis testing, statistical prediction, principal component analysis
        - Reporting: RMarkdown, Shiny, kableExtra
        - Visualization: ggplot2, Vega-Lite, Tableau,
        - Development: R package development, unit testing, code coverage, version control via GitHub
    - [Basic/Familiar]: git, bash, Python, Java, HTML, CSS, JavaScript, Node.js, SQL
- Languages:
    - English
    - Japanese (N3)